

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

MATHEUS et al

Atty. Ref.: 2789-38

Serial No. to be assigned

Group: unknown

Filed: May 31, 2001

Examiner: unknown

For: FREQUENCY TRACKING DEVICE FOR A RECEIVER OF A MULTI-CARRIER
COMMUNICATION SYSTEM

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Assistant Commissioner for Patents
Washington, DC 20231

Sir:

PRELIMINARY AMENDMENT

In order to place the above-identified application in better condition for
examination, please amend the application as follows:

IN THE CLAIMS

Please substitute the following amended claims for corresponding claims 4 and 14
previously presented. A copy of the amended claims showing current revisions is
attached.

4. {AMENDED} Frequency tracking device (FTD) according to claim 1, wherein
said corrector (CORR1; CORR2) includes a second correction unit (CORR2)
arranged downstream of the receiver multi-carrier filter bank and adapted to rotate all
data symbols output by the receiver multi-carrier filter bank with the same phase shift
depending on the frequency deviation estimate ($f_{\text{off,est}}$).

14. {AMENDED} Receiver (RC) of a multi-carrier communication system
(MC-SYS), comprising reception means (RM) for receiving multi-carrier symbols

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transmitted from a transmitter (TR) via a transmission channel, a receiver multi-carrier filter bank for converting said multi-carrier symbols into complex data symbols, a data symbol sink for receiving said data symbols and a frequency tracking device (FTD) in accordance with claim 1.

Please add the following new claim 23 as follows:

--23. {NEW} Receiver (RC) of a multi-carrier communication system (MC-SYS), comprising reception means (RM) for receiving multi-carrier symbols transmitted from a transmitter (TR) via a transmission channel, a receiver multi-carrier filter bank for converting said multi-carrier symbols into complex data symbols, a data symbol sink for receiving said data symbols and a frequency tracking device (FTD) in accordance with claim 11.

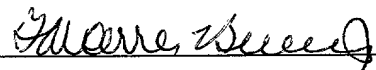
REMARKS

The above amendments are made to place the claims in a more traditional format.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "**Version With Markings To Show Changes Made.**"

Respectfully submitted,
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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS

4. {AMENDED} Frequency tracking device (FTD) according to claim 1 [or 3],
wherein
said corrector (CORR1; CORR2) includes a second correction unit (CORR2)
arranged downstream of the receiver multi-carrier filter bank [(8)] and adapted to rotate
all data symbols output by the receiver multi-carrier filter bank [(8)] with the same phase
shift depending on the frequency deviation estimate ($f_{\text{off,est}}$).
14. {AMENDED} Receiver (RC) of a multi-carrier communication system (MC-
SYS), comprising reception means (RM) for receiving multi-carrier symbols transmitted
from a transmitter (TR) via a transmission channel [(6)], a receiver multi-carrier filter
bank [(8)] for converting said multi-carrier symbols into complex data symbols, a data
symbol sink [(11)] for receiving said data symbols and a frequency tracking device
(FTD) in accordance with [one or more of claims 1-10 or one or more of claims 11-13]
claim 1.